PEDRA CHRISTI

Form 4

December 14, 2010

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

if no longer subject to Section 16. Form 4 or

Check this box

Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * PEDRA CHRISTI

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

INVIVO THERAPEUTICS HOLDINGS CORP. [NVIV]

(Check all applicable)

(Last)

(First)

(Middle)

3. Date of Earliest Transaction

X_ Director Officer (give title

10% Owner Other (specify

C/O INVIVO THERAPEUTICS **HOLDINGS CORP., ONE BROADWAY, 14TH FLOOR**

(Street)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Applicable Line) _X_ Form filed by One Reporting Person

(Instr. 4)

Filed(Month/Day/Year)

(Month/Day/Year)

12/10/2010

Form filed by More than One Reporting

CAMBRIDGE, MA 02142

(City)

(State)

(Month/Day/Year)

(Zip)

2. Transaction Date 2A. Deemed

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

TransactionAcquired (A) or

5. Amount of Securities

Beneficially

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial

Ownership

(Instr. 4)

Execution Date, if

Code (Month/Day/Year) (Instr. 8)

3.

Disposed of (D) (Instr. 3, 4 and 5)

4. Securities

Owned Following Reported Transaction(s)

1.Title of

Security

(Instr. 3)

(A)

(Instr. 3 and 4) Code V Amount (D) Price

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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1. Title of	2.	3. Transaction Date		4.	5. Number of	6. Date Exercisab	le and	7. Title and A	
Derivative	Conversion	(Month/Day/Year)	Execution Date, if		onDerivative	Expiration Date		Underlying S	
Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8)	Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/Year)	(Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Share
Stock Option (right to	\$ 2.26	12/10/2010		A	50,000	01/10/2011(1)	12/10/2020	Common Stock	50,000

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

PEDRA CHRISTI C/O INVIVO THERAPEUTICS HOLDINGS CORP. ONE BROADWAY, 14TH FLOOR CAMBRIDGE, MA 02142



Signatures

buy)

/s/ Christi Pedra 12/14/2010

**Signature of Person Date

**Reporting Person

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Option vests in 12 equal monthly installments on each monthly anniversary of the grant date until fully vested on the first anniversary of (1) the grant date. Option not exercisable until the Company's 2010 Equity Incentive Plan is approved by the Company's stockholders and a registration statement on Form S-8 to register shares underlying such option is filed with the Securities and Exchange Commission.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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